

DC circuitry constructed and arranged for applying an DC voltage to said cone electrodes of said two cap electrodes to generate an electrically variable electrostatic octopole field in said ion trap.]

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29. (Currently amended) A method of operating an ion trap of in claim 3, wherein comprising: said ion trap keeping amplitude and frequency of the RF voltage or amplitude and period of the periodic voltage at predetermined values; simultaneously sweeping or scanning the amplitude of the DC voltage and the amplitude and frequency of the AC voltage vs. time to eject ion mass from the ion trap one after another.

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Date: September 29, 2005

Re: Advisory Action before the filing of an appeal brief : Patent application/Control Number: 10/764,252, Art Unit: 2881.

Dear David,

I received the advisory action before the filing of an appeal brief dated on September 20, 2005. I believe I have not exactly understood your comments and instructions on our phone communication on July 19 and August 16, 2005 for allowances of rejected claim 29, 30, 33, 34, 37, 38, 41, 42, 49 and 52, ref. to the Interview Summary on September, 4 2005.

I tried to call you in last a few days, but I can not reach to you. I have not left messages because I want to talk to you directly and I am often absent in my office. Could you kindly call me back to my cell phone number: 978-413-3222. The deadline to reply is on October 11, 2005

In the following, I try to reformat claim 29 (claims 30, 33, 34, 37, 38 are similar) again:

[For reference: Claim 3. (Previously presented) An ion trap, comprising: a three-dimensional rotationally symmetric ring electrode and two cap electrodes with surfaces facing toward the inside of the ion trap, each said two cap electrodes being further composed of a first cone electrode and a second disk electrode; a RF or periodic circuitry constructed and arranged for applying a RF or periodic voltage to said ring electrode to generate a main quadrupole field in said ion trap; an AC circuitry constructed and arranged for applying an AC voltage to said disk electrodes of said two cap electrodes to generate a dipole field in said ion trap; a